GASTROENTEROLOGY

Volume 84, January–June 1983

Editor

Robert K. Ockner
University of California
School of Medicine
San Francisco, California 94143

Consulting Editors

Rudi Schmid
University of California
San Francisco, California 94143

Marvin H. Sleisenger
University of California
San Francisco, California 94143

Associate Editors

Raj K. Goyal
Beth Israel Hospital
330 Brookline Avenue
Boston, Massachusetts 02215

Young S. Kim
University of California
San Francisco, California 94143

Bruce F. Scharschmidt
University of California
San Francisco, California 94143

John H. Walsh
Veterans Administration
Wadsworth Hospital Center
Los Angeles, California 90073

Selected Summaries Editor
Robert M. Glickman
New York, New York

Book Review Editor
Armand Littman
Hines, Illinois

Chairman of Editorial Board

Fred Kern, Jr.
Denver, Colorado

Editorial Board

David H. Alpers, St. Louis, Missouri
Robert N. Berk, San Diego, California
William R. Brown, Denver, Colorado
Sidney Cohen, Philadelphia, Pennsylvania
Jules L. Dienstag, Boston, Massachusetts
Wylie J. Dodds, Milwaukee, Wisconsin
Edwin Englert, Jr., Salt Lake City, Utah
Michael Field, Chicago, Illinois
John S. Fordtran, Dallas, Texas
Jerry D. Gardner, Bethesda, Maryland
Alan F. Hofmann, San Diego, California
Bernard M. Jaffe, Brooklyn, New York
E. Anthony Jones, Bethesda, Maryland
Neil Kaplowitz, Los Angeles, California
Fred Kern, Jr., Denver, Colorado
Michael D. Levitt, Minneapolis, Minnesota
Willis C. Maddrey, Philadelphia, Pennsylvania
J. Donald Ostrow, Chicago, Illinois
Allan G. Redeker, Downey, California
Seymour M. Sabesin, Memphis, Tennessee
Francis R. Simon, Denver, Colorado
Jerry S. Trier, Boston, Massachusetts
Jack A. Vennes, Minneapolis, Minnesota
John B. Watkins, Philadelphia, Pennsylvania

Officers of the American Gastroenterological Association

President
John T. Farrar
Richmond, Virginia

President Elect
Thomas R. Hendrix
Baltimore, Maryland

Vice-President
Norton J. Greenberger
Kansas City, Kansas

Secretary
Kenneth A. Hubel
Iowa City, Iowa

Secretary Elect
Paul D. Webster III
Augusta, Georgia

Treasurer
James L. Borland, jr.
Jacksonville, Florida

GASTAB (1983) ISSN 0016-5085. © 1983 by the American Gastroenterological Association. Issued monthly in two indexed volumes per year by Elsevier Science Publishing Co., Inc., 52 Vanderbilt Avenue, New York, NY 10017.

This journal has been registered with the Copyright Clearance Center, Inc. Consent is given for the copying of articles for personal or internal use, or for the personal or internal use of specific clients. This consent is given on the condition that the copier pay through the Center the per copy fee stated in the code on the first page of each article for copying beyond that permitted by the US Copyright Law. If no code appears on an article, the author has not given broad consent to copy, and permission to copy must be obtained directly from the author. This consent does not extend to other kinds of copying, such as for general distribution, resale, advertising and promotional purposes, or for creating new collective works.

CONTENTS OF VOLUME 84

NO. 1, JANUARY 1983

ALIMENTARY TRACT

Effect of Enteric Hormones on Sphincter of Oddi and Gastrointestinal Myoelectric Activity in Fasted Conscious Opossums	R. HONDA, J. TOOULI, W.J. DODDS, J.E. GEENEN, W.J. HOGAN, AND Z. ITOH	1
Pancreatic Polypeptide and Intestinal Migrating Motor Complex in Humans. Effect of Pancreaticobiliary Secretion	C. OWYANG, S.R. ACHEM-KARAM, AND A.I. VINIK	10
Sucrase-Isomaltase Regulation by Dietary Sucrose in the Rat	J.P. CÉZARD, J.P. BROYART, P. CUISINIER-GLEIZES, AND H. MATHIEU	18
Fructose: Incomplete Intestinal Absorption in Humans	W.J. RAVICH, T.M. BAYLESS, AND M. THOMAS	26
Sorbitol Intolerance: An Unappreciated Cause of Functional Gastrointestinal Complaints	J.S. HYAMS	30
Identification of the Serotonin-Synthesizing Endocrine Cells in the Rat Stomach by Electron Microscopic Radioautography and Amine Fluorescence	W. RUBIN AND B. SCHWARTZ	34
Radiation-Induced Cancers of the Colon and Rectum: Assessing the Risk	R.S. SANDLER AND D.P. SANDLER	51
Interaction of the Octapeptide of Cholecystokinin and Gastrin I With Bethanechol in the Stimulation of Feline Colonic Smooth Muscle	W.J. SNAPE, JR.	58
Evaluation of Ileal Function Using 23-Selena-25-Homotaurocholate, a γ-Labeled Conjugated Bile Acid. Initial Clinical Assessment	H. NYHLIN, M.V. MERRICK, M.A. EASTWOOD, AND W.G. BRYDON	63
A Simple Method for Determining Epithelial Cell Turnover in Small Intestine. Studies in Young and Aging Rat Gut	P.R. HOLT, D.P. KOTLER, AND R.R. PASCAL	69
Prevention of Travelers' Diarrhea With Trimethoprim-Sulfamethoxazole and Trimethoprim Alone	H.L. DuPONT, E. GALINDO, D.G. EVANS, F.J. CABADA, P. SULLIVAN, AND D.J. EVANS, JR.	75
Effect of Ethanol on Jejunal Regional Blood Flow in the Rabbit	M.G. BUELL AND I.T. BECK	81
Calcium Inhibition of Inorganic Iron Absorption in Rats	J.C. BARTON, M.E. CONRAD, AND R.T. PARMLEY	90
Protein Content of Precipitates Present in Pancreatic Juice of Alcoholic Subjects and Patients With Chronic Calcifying Pancreatitis	O. GUY, G. ROBLES-DIAZ, Z. ADRICH, J. SAHEL, AND H. SARLES	102
Reliability of Symptoms in Assessing Control of Gastric Acid Secretion in Patients with Zollinger–Ellison Syndrome	J-P. RAUFMAN, S.M. COLLINS, S.J. PANDOL, L.Y. KORMAN, M.J. COLLEN, M.J. CORNELIUS, M.K. FELD, D.M. McCARTHY, J.D. GARDNER, AND R.T. JENSEN	108
Stressful Life Events, Acid Hypersecretion, and Ulcer Disease	M.N. PETERS AND C.T. RICHARDSON	114

LIVER AND BILIARY TRACT

Pharmacologic Effect of Somatostatin on Bile Formation in the Dog. Enhanced Ductular Reabsorption as the Major Mechanism of Anticholeresis	E. RENÉ, R.G. DANZINGER, A.F. HOFMANN, AND M. NAKAGAKI	120
Somatostatin Suppression of Canine Fasting Bile Secretion	J.B. HANKS, W.J. KORTZ, D.K. ANDERSEN, AND R.S. JONES	130
Pentane Clearance From Inspired Air by the Rat: Dependence on the Liver	R.F. BURK, T.M. LUDDEN, AND J.M. LANE	138

Hepatic Iron Uptake in Alcoholic Liver Disease	R.W. CHAPMAN, M.Y. MORGAN, R. BELL, AND S. SHERLOCK	143
Gallbladder Disease in Patients on Long-Term Parenteral Nutrition	J.J. ROSLYN, H.A. PITT, L.L. MANN, M.E. AMENT, AND L. DenBESTEN	148
Aldolase A Isoenzyme Levels in Serum and Tissues of Patients With Liver Diseases	M. ASAKA, K. NAGASE, T. MIYAZAKI, AND E. ALPERT	155
Diagnosis of Wilson's Disease Presenting as Fulminant Hepatic Failure	A.J. McCULLOUGH, C.R. FLEMING, J.L. THISTLE, W.P. BALDUS, J. LUDWIG, J.T. McCALL, AND E.R. DICKSON	161
CASE REPORTS		
Adenocarcinoma of an Ileostomy Site With Skin Invasion: A Case Report	F. BACIEWICZ, M. SPARBERG, J.B. LAWRENCE, AND S.M. POTICHA	168
Ischemic Colitis Complicating Sickle Cell Crisis	T.P. GAGE AND J.M. GAGNIER	171
Cholestatic Jaundice With a Normal Serum Alkaline Phosphatase Level: Another Case of Hypophosphatasia in an Adult?	P.I. PILLANS, P. BERMAN, AND S.J. SAUNDERS	175
PROGRESS ARTICLE		
Some Thoughts on the Biologic Role of Immunoglobulin A	J. BIENENSTOCK AND A.D. BEFUS	178
EDITORIALS		
Radiation as a Risk Factor in the Natural History of Colorectal Cancer	D. SCHOTTENFELD	186
Uncertainties in the Management of the Zollinger–Ellison Syndrome	J-R. MALAGELADA	188
Stress and Ulcers—The Continuing Association	H. WEINER	189
SELECTED SUMMARIES		
Peptides, the Brain, and Gut Motility		191
Starvation, Stomach Contractions, and Stress Ulcers		192
Colonic Polyps and Acromegaly—Are They Associated?		193
Effect of Cancer on the Intestine: Tumor-Induced Hypercalcemia due to Increased Absorption of Calcium		193
Ulcer Pain		194
Spontaneous Bacterial Peritonitis		196
BOOK REVIEWS		197
CORRESPONDENCE		201
NOTICES		205
CLASSIFIED ADS		207

NO. 2, FEBRUARY 1983

LIVER AND BILIARY TRACT		
Diagnostic Efficacy of Hepatic Computed Tomography in the Detection of Body Iron Overload	J.M. HOWARD, C.N. GHENT, L.S. CAREY, P.R. FLANAGAN, AND L.S. VALBERG	209
Clinical and Histological Events Preceding Hepatitis B e Antigen Seroconversion in Chronic Type B Hepatitis	Y-F. LIAW, C-M. CHU, I-J. SU, M-J. HUANG, D-Y. LIN, AND C-S. CHANG-CHIEN	216

Virus-Associated Receptors for Polymerized Human Serum Albumin in Acute and in Chronic Hepatitis B Virus Infection	P. PONTISSO, A. ALBERTI, F. BORTOLOTTI, AND G. REALDI	220
Effect of Cholestasis Produced by Bile Duct Ligation on Hepatic Heme and Hemoprotein Metabolism in Rats	B.A. SCHACTER, E. JOSEPH, AND G. FIRNEISZ	227
Changes in Aminolevulinate Synthase and Aminolevulinate Dehydratase Activity in Cirrhotic Liver	T. KODAMA, M. KONDO, G. URATA, H. SATOH, H. OHTAKE, Y. IWASAKI, H. ITAKURA, A. OHKUBO, AND K. KOSAKA	236
An Increased Familial Frequency of Gallstones	T. GILAT, C. FELDMAN, Z. HALPERN, M. DAN, AND S. BAR-MEIR	242
Acetylsalicylic Acid Suppresses the Renal Hemodynamic Effect and Reduces the Diuretic Action of Furosemide in Cirrhosis With Ascites	R. PLANAS, V. ARROYO, A. RIMOLA, R.M. PÉREZ-AYUSO, AND J. RODÉS	247
Alteration of the Degree of Biliary Cholesterol Saturation in the Hamster and Rat by Manipulation of the Pools of Preformed and Newly Synthesized Cholesterol	S.D. TURLEY, D.K. SPADY, AND J.M. DIETSCHY	253
Effect of Litholytic Bile Acids on Cholesterol Absorption in Gallstone Patients	N.F. LaRUSSO AND J.L. THISTLE	265
ALIMENTARY TRACT		
Histamine Release From a Gastric Carcinoid: Provocation by Pentagastrin and Inhibition by Somatostatin	L.J. ROBERTS, II, Z.T. BLOOMGARDEN, S.R. MARNEY, JR., D. RABIN, AND J.A. OATES	272
Brief Prophylaxis With Doxycycline for the Prevention of Traveler's Diarrhea	L.D. FREEMAN, D.R. HOOPER, D.F. LATHEN, D.P. NELSON, W.O. HARRISON, AND D.S. ANDERSON	276
Individual and Combined Roles of the Pylorus and the Antrum in the Canine Gastric Emptying of a Liquid and a Digestible Solid	R.A. HINDER with the technical assistance of B.A. SAN-GARDE	281
Neuromuscular Differentiation of the Human Pylorus	K. SCHULZE-DELRIEU AND S.S. SHIRAZI	287
Complex Pathogenesis of Hyperoxaluria After Jejunoileal Bypass Surgery. Oxalogenic Substances in Diet Contribute to Urinary Oxalate	A.F. HOFMANN, M.F. LAKER, K. DHARMSATHAPHORN, H.P. SHERR, AND D. LORENZO	293
Pregnancy-Related Changes in Small Intestinal Myoelectric Activity in the Rat	L.D. SCOTT, R. LESTER, D.H. VAN THIEL, AND A. WALD	301
Cysteamine and Prostaglandin $F_{2\beta}$ Stimulate Rat Gastric Mucin Release	J.T. LAMONT, A.S. VENTOLA, E.A. MAULL, AND S. SZABO	306
Adaptive Response of Humans to Changes in Dietary Calcium: Relationship Between Vitamin D Regulated Intestinal Function and Serum 1,25-Dihydroxyvitamin D Levels	D.D. BIKLE, R.H. HERMAN, S. HULL, L. HAGLER, D. HARRIS, AND B. HALLORAN	314
Cyclic Adenosine Monophosphate Stimulates Active Potassium Secretion in the Rat Colon	E.S. FOSTER, G.I. SANDLE, J.P. HAYSLETT, AND H.J. BINDER	324
Studies of the pH Gradient and Thickness of Frog Gastric Mucus Gel	K. TAKEUCHI, D. MAGEE, J. CRITCHLOW, J. MATTHEWS, AND W. SILEN	331
Effect of Enteral Feeding on the Maintenance of Gastric Acid Secretory Function	P.E. HYMAN, E.J. FELDMAN, M.E. AMENT, W.J. BYRNE, AND A.R. EULER	341
A Familial Visceral Myopathy With External Ophthalmoplegia and Autosomal Recessive Transmission	S. ANURAS, F.A. MITROS, T.V. NOWAK, V.V. IONASESCU, N.J. GURLL, J. CHRISTENSEN, AND J.B. GREEN	346
Quantitative Evaluation of Bile Diversion Surgery Utilizing ^{99m}Tc HIDA Scintigraphy	P.C. WICKREMESINGHE, P.Q. DAYRIT, O.L. MANFREDI, R.A. FAZIO, AND V.L. FAGEL	354

Studies of the Etiology of Crohn's Disease Using Athymic Nude Mice	K.M. DAS, I. VALENZUELA, S.E. WILLIAMS, R. SOEIRO, A.S. KADISH, AND S.G. BAUM	364
Origin of Slow Waves in the Canine Colon	N.G. DURDLE, Y.J. KINGMA, K.L. BOWES, AND M.M. CHAMBERS	375
Intestinal Pacing for Canine Postgastrectomy Dumping	J.M. BECKER, P. SAVA, K.A. KELLY, AND L. SHTURMAN	383
Location and Activity of Ulcerative and Crohn's Colitis by Indium 111 Leukocyte Scan. A Prospective Comparison Study	D.T. STEIN, G.M. GRAY, P.B. GREGORY, M. ANDERSON, D.A. GOODWIN, AND I.R. McDOUGALL	388
CASE REPORTS		
Chronic Camphor Ingestion Mimicking Reye's Syndrome	J.F. JIMENEZ, A.L. BROWN, W.C. ARNOLD, AND W.J. BYRNE	394
Biliary Cystadenocarcinoma Diagnosed by Liver Biopsy Performed Under Ultrasonographic Guidance	Y. IEMOTO, Y. KONDO, T. NAKANO, K. TSUCHIYA, AND M. OHTO	399
Surveillance/Management of an Obligate Gene Carrier: The Cancer Family Syndrome	H.T. LYNCH, W.A. ALBANO, T.A. RUMA, G.D. SCHMITZ, K.A. COSTELLO, AND J.F. LYNCH	404
PROGRESS ARTICLE		
Neural and Pharmacologic Factors Affecting Motility of the Internal Anal Sphincter	D.E. BURLEIGH AND A. D'MELLO	409
EDITORIALS		
Diagnosis of Hemochromatosis	J.L. GOLLAN	418
Chronic Type B Hepatitis	J.H. HOOFNAGLE	422
Prevention of Traveler's Diarrhea	M.H. MERSON	424
Indium-111-Leukocyte Imaging Study in Inflammatory Bowel Disease	J.W. SINGLETON AND W.C. KLINGENSMITH III	426
Prevention and Cure for Colorectal Cancer	E.J. GARDNER	427
Gut and Pancreatic Amine Precursor Uptake and Decarboxylation Cells Are Not Neural Crest Derivatives	A. ANDREW, B. KRAMER, AND B.B. RAWDON	429
SELECTED SUMMARIES		
Another Therapy for Bleeding Varices		432
Selective Anticholinergic Drugs		433
Mechanisms of Gastric Acid Secretion		434
Intestinal Alkaline Phosphatase and Fat Absorption		434
Complexities of the Golgi Complex		435
Charcot-Leyden Crystals Revisited		437
To Sample or Not To Sample		438
BOOK REVIEWS		440
CORRESPONDENCE		444
OBITUARY		449
NOTICES		450
CLASSIFIED ADS		452

NO. 3, MARCH 1983

ALIMENTARY TRACT		
Interdigestive Phasic Contractions of the Human Lower Esophageal Sphincter	J. DENT, W.J. DODDS, T. SEKIGUCHI, W.J. HOGAN, AND R.C. ARNDORFER	453

Relationship Between the Functional Status of the Reticuloendothelial System and the Outcome of Experimentally Induced Pancreatitis in Young Mice	N.F. ADHAM, M.K. SONG, AND G.C. HABERFELDE	461
Colonic Inhibition of Pancreatic and Biliary Secretion	C. OWYANG, L. GREEN, AND D. RADER	470
Comparative Evaluation of the Therapeutic Efficacy of a pH-Sensitive Enteric Coated Pancreatic Enzyme Preparation With Conventional Pancreatic Enzyme Therapy in the Treatment of Exocrine Pancreatic Insufficiency.	S.K. DUTTA, J. RUBIN, AND J. HARVEY	476
Role of Bacteria in Gastric Ulceration Produced by Indomethacin in the Rat: Cytoprotective Action of Antibiotics	H. SATOH, P.H. GUTH, AND M.I. GROSSMAN	483
Fine Structure of a Neuroendocrine Complex in the Mucosa of the Appendix	L. PAPADAKI, J. RODE, A.P. DHILLON, AND F.E. DISCHE	490
Cultured Rabbit Gastric Epithelial Cells Producing Prostaglandin I_2	K. MATUOKA, M. TANAKA, Y. MITSUI, AND S-I. MUROTA	498
Phytohemagglutinin Derived From Red Kidney Bean (*Phaseolus vulgaris*): A Cause for Intestinal Malabsorption Associated With Bacterial Overgrowth in the Rat	J.G. BANWELL, D.H. BOLDT, J. MEYERS, F.L. WEBER JR., with the technical assistance of B. MILLER AND R. HOWARD	506
Effect of Dopamine and Bromocriptine on Rat Ileal and Colonic Transport. Stimulation of Absorption and Reversal of Cholera Toxin-Induced Secretion	M. DONOWITZ, G. ELTA, L. BATTISTI, R. FOGEL, AND E. LABEL-SCHWARTZ	516
Carcinoembryonic Antigen Radioimmunodetection in the Evaluation of Colorectal Cancer and in the Detection of Occult Neoplasms	D.M. GOLDENBERG, E.E. KIM, S.J. BENNETT, M.O. NELSON, AND F.H. DELAND	524
In Vitro Degradation of Gastric Mucin. Carbohydrate Side Chains Protect Polypeptide Core From Pancreatic Proteases	E.P. VARIYAM AND L.C. HOSKINS	533
Etiology and Prevalence of Severe Persistent Upper Gastrointestinal Bleeding	D. FLEISCHER	538
Effects of Colchicine on the Intestinal Transport of Endogenous Lipid. Ultrastructural, Biochemical, and Radiochemical Studies in Fasting Rats	M. PAVELKA AND A. GANGL	544
Interaction of Neurotensin, Cholecystokinin, and Secretin in the Stimulation of the Exocrine Pancreas in the Dog	I. BAĆA, G.E. FEURLE, M. HAAS, AND T. MERNITZ	556

LIVER AND BILIARY TRACT

Effect of Hepatic Vitamin A Depletion on the Liver in Humans and Rats	M.A. LEO, M. SATO, AND C.S. LIEBER	562
A Reproducible Canine Model of Esophageal Varices	D.M. JENSEN, G.A. MACHICADO, J.I. TAPIA, G. KAUFFMAN, P. FRANCO, AND D. BEILIN	573
Effects of Chronic Ethanol Administration on Hepatic Glycoprotein Secretion in the Rat	M.F. SORRELL, J.M. NAUSS, T.M. DONOHUE, JR., AND D.J. TUMA	580
Early Diagnosis of Budd-Chiari Syndrome by Computed Tomography and Ultrasonography: Report of Five Cases	A.L. BAERT, J. FEVERY, G. MARCHAL, P. GODDEERIS, G. WILMS, E. PONETTE, AND J. De GROOTE	587
Experimental Autoimmune Hepatitis in Mice After Immunization With Syngeneic Liver Proteins Together With the Polysaccharide of *Klebsiella pneumoniae*	J. KURIKI, H. MURAKAMI, S. KAKUMU, N. SAKAMOTO, T. YOKOCHI, I. NAKASHIMA, AND N. KATO	596

Immunoglobulin M Antibody Against Hepatitis B Core Antigen for the Diagnosis of Fulminant Type B Hepatitis	M. SHIMIZU, M. OHYAMA, Y. TAKAHASHI, K. UDO, M. KOJIMA, M. KAMETANI, F. TSUDA, E. TAKAI, Y. MIYAKAWA, AND M. MAYUMI	604
Hepatic Hemodynamics in Patients With Chronic Hepatitis or Cirrhosis as Assessed by Organ-Reflectance Spectrophotometry	N. SATO, N. HAYASHI, S. KAWANO, T. KAMADA, AND H. ABE	611
Effect of Bile Acid Conjugation Pattern on Bile Acid Metabolism in Normal Humans	W.G.M. HARDISON AND S.M. GRUNDY	617
CASE REPORTS		
Segmental Pancreatic Autotransplantation for Chronic Pancreatitis. A Preliminary Report	R.L. ROSSI, J.W. BRAASCH, E.M. O'BRYAN, AND E. WATKINS, JR.	621
Small Bowel Obstruction Secondary to Enzymatic Digestion of a Gastric Bezoar	T.O. RUMLEY, M.P. HOCKING, AND C.E. KING	627
Unilobar Small Hepatic Vein Obstruction: Possible Role of Progestogen Given as Oral Contraceptive	M-F. SAINT-MARC GIRARDIN, E.S. ZAFRANI, A. PRIGENT, D. LARDE, J. CHAUFFOUR, AND D: DHUMEAUX	630
Diffuse Phlegmonous Gastroenterocolitis in a Patient With an Infected Peritoneo-Jugular Venous Shunt	E.D. BLEI AND C. ABRAHAMS	636
Budd-Chiari Syndrome Recurring in a Transplanted Liver	H.J. SELTMAN, A. DEKKER, D.H. VAN THIEL, D.R. BOGGS, AND T.E. STARZL,	640
EDITORIALS		
The National Cooperative Gallstone Study Viewed by Its Investigators	L.J. SCHOENFIELD, S.M. GRUNDY, A.F. HOFMANN, J.M. LACHIN, J.L. THISTLE, AND M.P. TYOR	644
The National Cooperative Gallstone Study and Chenodiol	L.W. WAY	648
Carcinoembryonic Antigen Radioimmunodetection	P.W. DYKES AND A.R. BRADWELL	651
Immunoglobulin M Hepatitis B Core Antibody: To Titer or not to Titer? To Use or Not to Use?	G. GITNICK	653
SELECTED SUMMARIES		
A Visceral Response to Viscosity		656
Management of Perforated Duodenal Ulcers		657
A Cryptic Parasite		657
Chemoprevention in Polyposis Coli		658
Cholecystectomy in Cirrhotic Patients		659
Hepatic Iron in Hemochromatosis and Alcoholism		660
The Gut and Immunological Tolerance		660
Reply to Selected Summary: Selective Anticholinergic Drugs (GASTROENTEROLOGY 1983;84:433)		661
BOOK REVIEWS		662
CORRESPONDENCE		667
NOTICES		674
CLASSIFIED ADS		676

NO. 4, APRIL 1983

LIVER AND BILIARY TRACT		
Recovery of Sexual Function in Abstinent Alcoholic Men	D.H. VAN THIEL, J.S. GAVALER, AND A. SANGHVI	677

Alcoholic Foamy Degeneration—A Pattern of Acute Alcoholic Injury of the Liver	T. UCHIDA, H. KAO, M. QUISPE-SJOGREN, AND R.L. PETERS	683
Hepatitis B Virus Status of Black Women With Hepatocellular Carcinoma	M.C. KEW, E. ROSSOUW, A. PATERSON, J. HODKINSON, M. WHITCUTT, AND G. DUSHEIKO	693
Urinary Thromboxane B_2 and Prostaglandin E_2 in the Hepatorenal Syndrome: Evidence for Increased Vasoconstrictor and Decreased Vasodilator Factors	R.D. ZIPSER, G.H. RADVAN, I.J. KRONBORG, R. DUKE, AND T.E. LITTLE	697
Characterization and Quantitation of Human Hepatic Estrogen Receptor	L.E. PORTER, M.S. ELM, D.H. VAN THIEL, M.C. DUGAS, AND P.K. EAGON	704
Hyponatremia and Arginine Vasopressin Secretion in Patients With Refractory Hepatic Ascites Undergoing Peritoneovenous Shunting	R.K. REZNICK, B. LANGER, B.R. TAYLOR, S. SEIF, AND L.M. BLENDIS	713
Interaction of Hemolytic Anemia and Genotype on Hemolysis-Induced Gallstone Formation in Mice	B.W. TROTMAN, S.E. BERNSTEIN, W.F. BALISTRERI, AND R.A. MARTIN	719
ALIMENTARY TRACT		
Effects of Small Bowel Transection, Resection, or Bypass in 1,2-Dimethylhydrazine-Induced Rat Intestinal Neoplasia	C.H. SCUDAMORE AND H.J. FREEMAN	725
Changes in Plasma Apolipoproteins A-I, A-II, and B, and Lipoprotein Cholesterol After Jejunoileal Bypass	R.B. GOLDBERG, R.B. WEINBERG, AND R.L. LANDAU	732
Colonic Electromyography in Chronic Constipation	G. FRIERI, F. PARISI, E. CORAZZIARI, AND R. CAPRILLI	737
Esophageal and Gastric Motor Abnormalities in Gastroesophageal Reflux During Infancy	A.C. HILLEMEIER, B.B. GRILL, R. McCALLUM, AND J. GRYBOSKI	741
Gastric Emptying and Obesity	R.A. WRIGHT, S. KRINSKY, C. FLEEMAN, J. TRUJILLO, AND E. TEAGUE	747
An Unusually High Incidence of Gastrointestinal Obstruction by Persimmon Bezoars in Israeli Patients After Ulcer Surgery	E.Z. MORIEL, A. AYALON, A. EID, D. RACHMILEWITZ, M.M. KRAUSZ, AND A.L. DURST	752
Aspirin Can Inhibit Gastric Mucosal Cyclo-Oxygenase Without Causing Lesions in Rat	M. LIGUMSKY, E.M. GOLANSKA, D.G. HANSEN, AND G.L. KAUFFMAN, JR.	756
Motor Responses to Food of the Ileum, Proximal Colon, and Distal Colon of Healthy Humans	P. KERLIN, A. ZINSMEISTER, AND S. PHILLIPS	762
Radionuclide Esophageal Emptying of a Solid Meal to Quantitate Results of Therapy in Achalasia	R.H. HOLLOWAY, G. KROSIN, R.C. LANGE, A.E. BAUE, AND R.W. McCALLUM	771
Tissue Localization and Relative Distribution of Regulatory Peptides in Separated Layers From the Human Bowel	G-L. FERRI, T.E. ADRIAN, M.A. GHATEI, D.J. O'SHAUGHNESSY, L. PROBERT, Y.C. LEE, A.M.J. BUCHAN, J.M. POLAK, AND S.R. BLOOM	777
Demonstration of a pH Gradient at the Luminal Surface of Rat Duodenum In Vivo and Its Dependence on Mucosal Alkaline Secretion	G. FLEMSTRÖM AND E. KIVILAAKSO	787
Isolation and Preliminary Characterization of Human Intestinal Macrophages	J.P. GOLDER AND W.F. DOE	795
Anatomical Extent of Fiberoptic Sigmoidoscopy	G.A. LEHMAN, D.M. BUCHNER, AND J.C. LAPPAS	803
Impaired Acid Secretion and Pancreatic Polypeptide Release in Some Patients With Achalasia	C.P. DOOLEY, I.L. TAYLOR, AND J.E. VALENZUELA	809
Enteric Mechanisms of Initiation of Migrating Myoelectric Complexes in Dogs	S. SARNA, R.E. CONDON, AND V. COWLES	814
Diet for Patients With a Short Bowel: High Fat or High Carbohydrate?	G.M. WOOLF, C. MILLER, R. KURIAN, AND K.N. JEEJEEBHOY	823

CASE REPORTS

Lymphomatoid Granulomatosis Involving the Gastrointestinal Tract. Two Case Reports and a Review of the Literature — L.A. RUBIN, A.H. LITTLE, A. KOLIN, AND E.C. KEYSTONE — 829

Pachydermoperiostosis, Hypertrophic Gastropathy, and Peptic Ulcer — S.K. LAM, W.K.K. HUI, J. HO, K.P. WONG, J.I. ROTTER, AND I.M. SAMLOFF — 834

Postprandial Hypoglycemia After Nissen Fundoplication for Reflux Esophagitis — G.P. ZALOGA AND B. CHERNOW — 840

Does Intercurrent Hepatitis Have a Beneficial Effect on the Course of Crohn's Disease? — G. VANTRAPPEN, G. COREMANS, J. JANSSENS, AND P. RUTGEERTS — 843

PROGRESS ARTICLE

Microcirculation of the Alimentary Tract. I. Physiology of Transcapillary Fluid and Solute Exchange — D.N. GRANGER AND J.A. BARROWMAN — 846

EDITORIALS

Hepatitis B Virus and Primary Hepatocellular Carcinoma — J.L. GERIN — 869

Mechanisms of Disturbed Renal Water Excretion in Cirrhosis — R.W. SCHRIER — 870

Short Bowel Syndrome: High-Fat Versus High-Carbohydrate Diet — E.A. YOUNG — 872

Obesity and Gastric Emptying — A. DUBOIS — 875

SELECTED SUMMARIES

Hepatitis B Vaccine and Cost-Effectiveness Analysis — 877

Cholestasis, Gallstones, and Parenteral Nutrition — 877

Does Preoperative Biliary Drainage Influence Operative Mortality — 878

Postvagotomy Acid Secretion — 879

Another Agent to Heal Ulcers — 880

Selective Transport of Polymeric Immunoglobulin A in Bile — 881

Reply to Selected Summary: A Visceral Response to Viscosity (GASTROENTEROLOGY 1983;84:656–7) — 881

Reply to Selected Summary: Cholecystectomy in Cirrhotic Patients (GASTROENTEROLOGY 1983;84:659) — 882

BOOK REVIEWS — 883

CORRESPONDENCE — 887

NOTICES — 890

CLASSIFIED AD — 892

NO. 5, MAY 1983, PART 1 OF 2 PARTS

ALIMENTARY TRACT

Prospective Manometric Evaluation With Pharmacologic Provocation of Patients With Suspected Esophageal Motility Dysfunction — S.B. BENJAMIN, J.E. RICHTER, C.M. CORDOVA, T.E. KNUFF, AND D.O. CASTELL — 893

Evidence for a Humoral Mechanism After Small Intestinal Resection. Exclusion of Gastrin but Not Enteroglucagon — G.R. SAGOR, M.A. GHATEI, M.Y.T. AL-MUKHTAR, N.A. WRIGHT, AND S.R. BLOOM — 902

Spike-Associated and Spike-Independent Esophageal Contractions in Patients With Symptomatic Diffuse Esophageal Spasm	A. OUYANG, J.C. REYNOLDS, AND S. COHEN	907
Chronic Administration of Bombesin Stimulates Antral Gastrin Cell Proliferation in the Rat	T. LEHY, J.P. ACCARY, D. LABEILLE, AND M. DUBRASQUET	914
Increased Gastrin Secretion in Patients With Pheochromocytoma	M. TATSUTA, M. BABA, AND T. ITOH	920
Lack of Vasoactive Intestinal Polypeptide Nerves in Esophageal Achalasia	S. AGGESTRUP, R. UDDMAN, F. SUNDLER, J. FAHRENKRUG, R. HÅKANSON, H.R. SØRENSEN, AND G. HAMBRAEUS	924
Effect of Prostaglandins E_2 and I_2 and of Indomethacin on Deoxycholic Acid-Induced Damage to the Rat Bile-Pancreatic Duct	A. OLAZÁBAL	928
Effects of Lactose on Intestinal Calcium Absorption in Normal and Lactase-Deficient Subjects	B. COCHET, A. JUNG, M. GRIESSEN, P. BARTHOLDI, P. SCHALLER, AND A. DONATH	935
Effects of Antibodies to Gastric Inhibitory Peptide on Gastric Acid Secretion and Gastrin Release in the Dog	M.M. WOLFE, M.P. HOCKING, D.G. MAICO, AND J.E. McGUIGAN	941
Hypersecretion of Submandibular Saliva in Male Mice: Trophic Response in Small Intestine	A.K.C. LI, M.E. SCHATTENKERK, R.G. HUFFMAN, J.S. ROSS, AND R.A. MALT	949
LIVER AND BILIARY TRACT		
Effect of Short-Term Prednisone Therapy on Aminotransferase Levels and Hepatitis B Virus Markers in Chronic Type B Hepatitis	J. RAKELA, A.G. REDEKER, AND B. WELIKY	956
Randomized Comparative Study of Efficacy of Furosemide Versus Spironolactone in Nonazotemic Cirrhosis With Ascites. Relationship Between the Diuretic Response and the Activity of the Renin-Aldosterone System	R.M. PÉREZ-AYUSO, V. ARROYO, R. PLANAS, J. GAYA, F. BORY, A. RIMOLA, F. RIVERA, AND J. RODÉS	961
Effect of Colonic Perfusion With Sulfated and Nonsulfated Bile Acids on Mucosal Structure and Function in the Rat	N.F. BREUER, D.S. RAMPTON, A. TAMMAR, G.M. MURPHY, AND R.H. DOWLING	969
Hepatic Handling of Bile Salts and Protein in the Rat During Intrahepatic Cholestasis	M.A. GOLDSMITH, S. HULING, AND A.L. JONES	978
Portal Hypertension and Gastric Mucosal Injury in Rats. Effects of Alcohol	I.J. SARFEH, A. TARNAWSKI, A. MALKI G.R. MASON, T. MACH, AND K.J. IVEY	987
Hepatic Adenoma and Focal Nodular Hyperplasia: Clinical, Pathologic, and Radiologic Features	P. KERLIN, G.L. DAVIS, D.B. McGILL, L.H. WEILAND, M.A. ADSON, AND P.F. SHEEDY II	994
Increased Blood–Brain Transfer in a Rabbit Model of Acute Liver Failure	M.E. HOROWITZ, D.F. SCHAFER, P. MOLNAR, E.A. JONES, R.G. BLASBERG, C.S. PATLAK, J. WAGGONER, AND J.D. FENSTERMACHER	1003
Does Total Parenteral Nutrition Induce Gallbladder Sludge Formation and Lithiasis?	B. MESSING, C. BORIES, F. KUNSTLINGER, AND J-J. BERNIER	1012
CASE REPORTS		
Inflammatory Polyposis in an Ileal Blind Loop	G.F. WOELFEL, D.N. CAMPBELL, I. PENN, J. REICHEN, AND G.H. WARREN	1020
Digital Ischemia Associated With Small Bowel Malignancy	D.H. WYTOCK, L.G. BARTHOLOMEW, AND S.G. SHEPS	1025
Mucosal Bridges of the Upper Esophagus After Radiotherapy for Hodgkin's Disease	A. PAPAZIAN, J-P. CAPRON, J-P. DUCROIX, J-L. DUPAS, C. QUENUM, AND P. BESSON	1028
Nitrofurantoin-Induced Pancreatitis: Report of a Case	G.F. NELIS	1032

PROGRESS ARTICLE

Microcirculation of the Alimentary Tract. II. Pathophysiology of Edema — D.N. GRANGER AND J.A. BARROWMAN — 1035

EDITORIALS

Classification of the Esophageal Motility Disorders — S. COHEN — 1050

Use of Diuretics in the Treatment of Cirrhotic Ascites — T.D. BOYER AND D.G. WARNOCK — 1051

Gallbladder Stasis: Consequence of Long-Term Parenteral Hyperalimentation and Risk Factor for Cholelithiasis — R.T. HOLZBACH — 1055

SELECTED SUMMARIES

Oral Contraceptives and Gallstones — 1059

Hepatic Acetaldehyde Dehydrogenase in Alcoholism — 1060

Nitroglycerin Plus Vasopressin Improves the Treatment of Portal Hypertension — 1060

Just Take an Aspirin— — 1061

Arachidonic Acid Metabolism and Colonic Secretion — 1062

Peyer's Patch Helper T Cells That Promote Antigen-Specific Immunoglobulin A Responses — 1063

A Simple Test for Amylase Isoenzymes Appears Ready for Clinical Use — 1064

Reply to Selected Summary: Postvagotomy Acid Secretion (GASTROENTEROLOGY 1983;84:879–80) — 1065

BOOK REVIEWS — 1067

CORRESPONDENCE — 1071

NOTICES — 1078

CLASSIFIED AD — 1080

CORRECTIONS — 1080

NO. 5, MAY 1983, PART 2 OF 2 PARTS

PROGRAM OF THE ANNUAL MEETING OF THE AMERICAN GASTROENTEROLOGICAL ASSOCIATION, THE AMERICAN ASSOCIATION FOR THE STUDY OF LIVER DISEASE, AND THE GASTROENTEROLOGY STUDY GROUP

Program of the Annual Meeting of the American Gastroenterological Association, the American Association for the Study of Liver Disease, the Gastroenterology Research Group, the Society for Surgery of the Alimentary Tract, and the American Society for Gastrointestinal Endoscopy — i

Abstracts of Papers Submitted to the American Gastroenterological Association — 1085

Abstracts of Papers Submitted to the American Association for the Study of Liver Disease — 1361

Student Research Abstracts — 1403

Author Index — 1413

Subject Index — 1426

NO. 6, JUNE 1983

LIVER AND BILIARY TRACT

Comparison of Different Methods for Endoscopic Hemostasis of Bleeding Canine Esophageal Varices — D.M. JENSEN, M.L. SILPA, J.I. TAPIA, D.B. BEILIN, AND G.A. MACHICADO — 1455

Primary Cultures of Rat Hepatocytes as a Model System of Canalicular Development, Biliary Secretion, and Intrahepatic Cholestasis. III. Properties of the Biliary Transport of Immunoglobulin A Revealed by Immunofluorescence — R. GEBHARDT — 1462

Hemochromatosis: Genetic or Alcohol-Induced? — G.D. LeSAGE, W.P. BALDUS, V.F. FAIRBANKS, A.H. BAGGENSTOSS, J.T. McCALL, S.B. MOORE, H.F. TASWELL, AND H. GORDON — 1471

Antibody to Hepatitis B Surface Antigen in Nonprimate Animal Species — J.H. HOOFNAGLE, D.F. SCHAFER, P. FERENCI, J.G. WAGGONER, J. VERGALLA, M. APRIL, AND L. PHILLIPS — 1478

Serum Antibodies Against Porphyric Hepatocytes in Patients With Porphyria Cutanea Tarda and Liver Disease — E. BARAVALLE AND J. PRIETO — 1483

Ultrasonography, Computed Tomography, and Cholescintigraphy in Suspected Obstructive Jaundice—A Prospective Comparative Study — P. MATZEN, A. MALCHOW-MØLLER, B. BRUN, S. GRØNVALL, A. HAUBEK, J.H. HENRIKSEN, K. LAURSEN, J. LEJERSTOFTE, P. STAGE, K. WINKLER, AND E. JUHL — 1492

A Blinded Prospective Study Comparing Four Current Noninvasive Approaches in the Differential Diagnosis of Medical Versus Surgical Jaundice — K.W. O'CONNOR, P.J. SNODGRASS, J.E. SWONDER, S. MAHONEY, R. BURT, E.M. COCKERILL, AND L. LUMENG — 1498

ALIMENTARY TRACT

A Soluble Interaction Between Dibutyryl Cyclic Guanosine 3′:5′-Monophosphate and Cholecystokinin: A Possible Mechanism for the Inhibition of Cholecystokinin Activity — L.J. MILLER, W.M. REILLY, S.A. ROSENZWEIG, J.D. JAMIESON, AND V.L.W. GO — 1505

A Randomized Blinded Clinical Trial of a Rapid Colonic Lavage Solution (Golytely) Compared With Standard Preparation for Colonoscopy and Barium Enema — J.J. ERNSTOFF, D.A. HOWARD, J.B. MARSHALL, A. JUMSHYD, AND A.J. McCULLOUGH — 1512

Effect of Exorphins on Gastrointestinal Function, Hormonal Release, and Appetite — J.E. MORLEY, A.S. LEVINE, T. YAMADA, R.L. GEBHARD, W.F. PRIGGE, R.B. SHAFER, F.C. GOETZ, AND S.E. SILVIS — 1517

Medical and Surgical Options in the Management of Patients With Gastrinoma — J-R. MALAGELADA, A.J. EDIS, M.A. ADSON, J.A. van HEERDEN, AND V.L.W. GO — 1524

Clinical Spectrum of "Solitary Ulcer" of the Rectum — M.J. FORD, J.R. ANDERSON, H.M. GILMOUR, S. HOLT, W. SIRCUS, AND R.C. HEADING — 1533

Gastric Mucosal Blood Distribution and Its Changes in the Healing Process of Gastric Ulcer — T. KAMADA, S. KAWANO, N. SATO, M. FUKUDA, H. FUSAMOTO, AND H. ABE — 1541

Ability of Various Adsorbents to Bind Endotoxins In Vitro and to Prevent Orally Induced Endotoxemia in Mice — B. DITTER, R. URBASCHEK, AND B. URBASCHEK — 1547

Changing Mortality of Peptic Ulcer Disease in Germany — A. SONNENBERG AND A. FRITSCH — 1553

Trends in Hospital Admission, Perforation, and Mortality of Peptic Ulcer in Hong Kong From 1970 to 1980 — J. KOO, Y.K. NGAN, AND S.K. LAM — 1558

Autoradiographic Demonstration of Estrogen Receptors in the Esophagus of Baboons — W.B. WINBORN, P.J. SHERIDAN AND H. C. McGILL, JR. — 1563

Effect of Gastrointestinal Intubation on the Passage of a Solid Meal Through the Stomach and Small Intestine in Humans	N.W. READ, M.N. AL JANABI, T.E. BATES, AND D.C. BARBER	1568
Effects of Metoclopramide and Bethanechol on Delayed Gastric Emptying Present in Gastroesophageal Reflux Patients	R.W. McCALLUM, S.M. FINK, E. LERNER, AND D.M. BERKOWITZ	1573
Effect of 1-Phenylpentanol on Release of Secretin and Exocrine Pancreatic Secretion in Dogs and Humans	W.Y. CHEY, L. MILLIKAN, K.Y. LEE, S. WATANABE, K. SHIRATORI, AND T. TAKEUCHI	1578
CASE REPORTS		
Case Report: Fourteen-Year Follow-up of an Apudoma of the Bile Ducts at the Hilum of the Liver	W. Van STEENBERGEN, J. FEVERY, M.J. VANSTAPEL, K. GEBOES, E. PONETTE, R. KERREMANS, AND J. De GROOTE	1585
Biliary Tree in Cystic Fibrosis. Biliary Tract Abnormalities in Cystic Fibrosis Demonstrated by Endoscopic Retrograde Cholangiography	S. BASS, J.J. CONNON, AND C.S. HO	1592
Peritoneal Encapsulation and Abdominal Cocoon. Case Reports and a Review of the Literature	J.O. SIECK, R. COWGILL, AND W. LARKWORTHY	1597
PROGRESS ARTICLE		
Gut Glucagon, Enteroglucagon, Gut Glucagonlike Immunoreactivity, Glicentin—Current Status	J.J. HOLST	1602
EDITORIALS		
Why Do Animals Have Antibodies to Hepatitis B Surface Antigen?	W.S. ROBINSON	1614
Approach to the Jaundiced Patient	J.A. VENNES AND J.H. BOND	1615
Mechanism by Which Dibutyryl Cyclic Guanosine Monophosphate Antagonizes the Action of Cholecystokinin	J.D. GARDNER	1619
Of Gastrinomas and Their Management	E. PASSARO, JR. AND B.E. STABILE	1621
What in the World Is Happening to Ulcers?	J.H. KURATA	1623
SELECTED SUMMARIES		
The Hard Work of Cost-Benefit Analysis		1626
Antacid Tablets Heal Duodenal Ulcers		1627
More on Celiac Disease and Malignancy		1627
Pancreatic Extract Does Decrease Abdominal Pain in Patients With Chronic Pancreatitis		1629
Silent Gallstones		1629
What Is "Best" in Liver Biopsies		1630
Association of Integrated Hepatitis B Virus—DNA and Hepatocellular Carcinoma in Alcoholic Cirrhosis		1631
Reply to Selected Summary: Hepatic Acetaldehyde Dehydrogenase in Alcoholism (GASTROENTEROLOGY 1983;84:1060)		1631
Reply to Selected Summary: Medical Dissolution of Gallstones: The Goose or the Bear? (GASTROENTEROLOGY 1982;83:1145–6)		1632
BOOK REVIEWS		1633
CORRESPONDENCE		1637
NOTICES		1644
CLASSIFIED ADS		1646
Author Index to Volume 84		1647
Subject Index to Volume 84		1656